

=> b reg
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STRUCTURE FILE UPDATES: 10 JAN 2011 HIGHEST RN 1258930-61-8
 DICTIONARY FILE UPDATES: 10 JAN 2011 HIGHEST RN 1258930-61-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

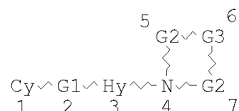
TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

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 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d que sta l14
 L5 STR



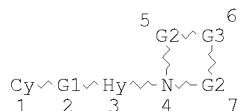
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 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS E4 C E2 N AT 3

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE
 L6 1749673 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON 46.195/RID AND
 NRS>=3
 L14 26410 SEA FILE=REGISTRY SUB=L6 SSS FUL L5

100.0% PROCESSED 1749673 ITERATIONS 26410 ANSWERS
 SEARCH TIME: 00.00.12

=> d que sta l18
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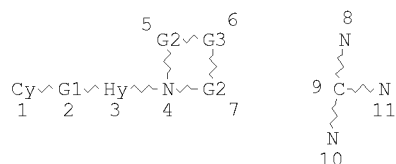
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STEREO ATTRIBUTES: NONE

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REP G2=(1-3) C
VAR G3=C/N
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DEFAULT ELEVEL IS LIMITED
EQUANT IS E4 C E2 N AT 3

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NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

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SEARCH TIME: 00.00.01
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$$\Rightarrow b \text{ zcap}$$

FILE 'ZCAPLUS' ENTERED AT 14:34:28 ON 11 JAN 2011
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FILE COVERS 1907 - 11 Jan 2011 VOL 154 ISS 3
FILE LAST UPDATED: 10 Jan 2011 (20110110/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2010

ZCAplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

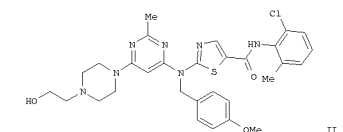
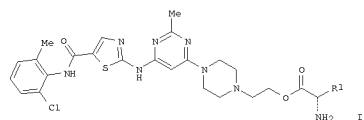
<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L22 ANSWER 1 OF 4 ZCAPLUS COPYRIGHT 2011 ACS on SIN
 AN 2009:1556443 ZCAPLUS
 DN 152:97483
 TI Preparation of Dasatinib derivatives as antitumor agents
 IN Wang, Jianmin
 PA Beijing Laibo Sailusen Pharmaceutical Science and Technology Co., Ltd.,
 Peop. Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 25pp.
 CODEN: CNXKEV
 DT Patent
 LA Chinese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN---101597284	A	20091209	2009CN-010089059	20090722
PRAI 2009CN-010089059		20090722		
OS CASREACT 152:97483; MARPAT 152:97483				
GI				



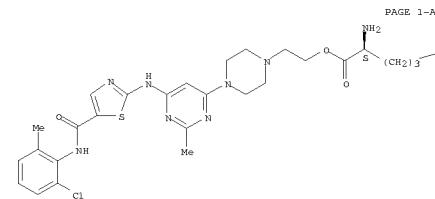
AB Title compds. [I; wherein R1 = H, (un)substituted alkyl, cycloalkyl, or aryl, etc.), and their pharmaceutically acceptable salts thereof, were prepared as antitumor agents. Thus, the invention compound I (R1 = i-Bu) was prepared by esterification of compound II (prepared given) with Boc-L-leucine followed by deprotection.

IT **1094075-80-5P** **1203456-85-2P**
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of Dasatinib derivs. as antitumor agents)

RN 1094075-80-5 ZCAPLUS
 CN L-Arginine, 2-[4-[6-[[5-[[[(2-chloro-6-methylphenyl)amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-1-piperazinyl]ethyl ester (CA INDEX NAME)

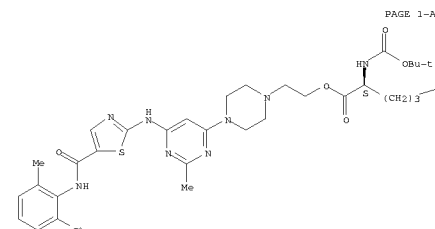
Absolute stereochemistry.

L22 ANSWER 1 OF 4 ZCAPLUS COPYRIGHT 2011 ACS on SIN (Continued)



RN 1203456-85-2 ZCAPLUS
 CN L-Arginine, N2-[[[(1,1-dimethylethoxy)carbonyl]-, 2-[4-[6-[[5-[[[(2-chloro-6-methylphenyl)amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-1-piperazinyl]ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

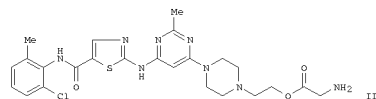
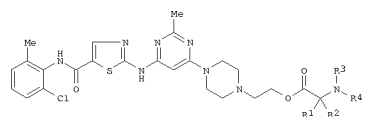


L22 ANSWER 1 OF 4 ZCAPLUS COPYRIGHT 2011 ACS on SIN (Continued)
 PAGE 1-B



L22 ANSWER 2 OF 4 ZCAPLUS COPYRIGHT 2011 ACS on SIN
 AN 2008:1467949 ZCAPLUS
 DN 150:77944
 TI Preparation of Dasatinib amino acid derivatives as antitumor agents
 IN Wang, Jianmin
 PA Peop. Rep. China
 SO Faming Zhuanli Shenqing, 45pp.
 CODEN: CNXKEV
 DT Patent
 LA Chinese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN---101314600	A	20081203	2008CN-010111853	20080516
CN---100532381	C	20090826		
PRAI 2008CN-010111853		20080516		
OS CASREACT 150:77944; MARPAT 150:77944				
GI				



AB The title Dasatinib amino acid derivs. I [wherein R1-R4 = independently H, (un)substituted (cyclo)alkyl, aryl, or aralkyl; or R1 and R2 form an (un)substituted cycloalkyl; or R2/R3 or R3/R4 form an (un)substituted heterocyclyl; with the proviso R2(R1) ≠ iso-Pr when R1(R2), R3, and R4 = H], or pharmaceutically acceptable salts, solvates, polycrystals, enantiomers, or racemic mixts. thereof were prepared for treating tumor, such as leukemia, myelodysplasia, Hodgkin's disease, non-Hodgkin's lymphoma, etc. For example, II was prepared from reaction of Dasatinib with N-Boc-glycine followed by removing the Boc group. In biol. test, II showed 41% bioavailability. The compds. can be used as prodrugs of Dasatinib, producing Dasatinib by enzymic hydrolysis.

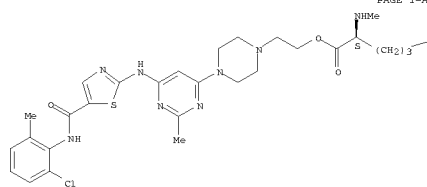
IT **1094074-86-8P** **1094075-80-5P** **1094074-82-4P** **1094075-80-5P** **1094074-85-7P**
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug candidate; preparation of Dasatinib amino acid derivs. as antitumor agents)

RN 1094074-82-4 ZCAPLUS
 CN L-Arginine, N2-methyl-, 2-[4-[6-[[5-[[[(2-chloro-6-methylphenyl)amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-1-piperazinyl]ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

L22 ANSWER 2 OF 4 SCAPLUS COPYRIGHT 2011 ACS on SIN (Continued)

PAGE 1-A



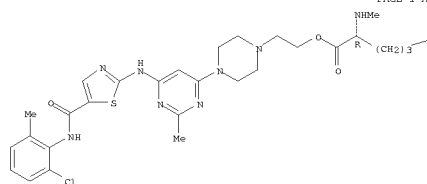
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RN 1094074-83-5 SCAPLUS
 CN D-Arginine, N2-methyl-, 2-[4-[6-[[5-[[2-chloro-6-methylphenyl]amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-1-piperazinyl]ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L22 ANSWER 2 OF 4 SCAPLUS COPYRIGHT 2011 ACS on SIN (Continued)

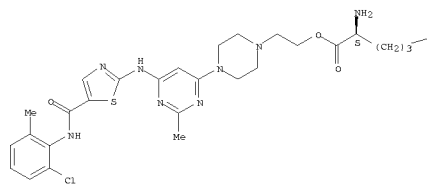
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RN 1094075-80-5 SCAPLUS
 CN L-Arginine, 2-[4-[6-[[5-[[2-chloro-6-methylphenyl]amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-1-piperazinyl]ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



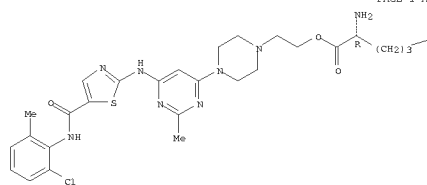
PAGE 1-B



RN 1094075-81-6 SCAPLUS
 CN D-Arginine, 2-[4-[6-[[5-[[2-chloro-6-methylphenyl]amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-1-piperazinyl]ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

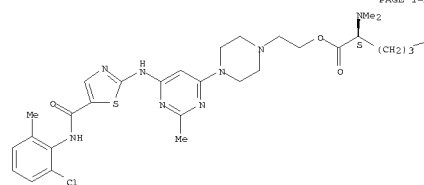


L22 ANSWER 2 OF 4 SCAPLUS COPYRIGHT 2011 ACS on SIN (Continued)

RN 1094074-85-7 SCAPLUS
 CN L-Arginine, N2,N2-dimethyl-, 2-[4-[6-[[5-[[2-chloro-6-methylphenyl]amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-1-piperazinyl]ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



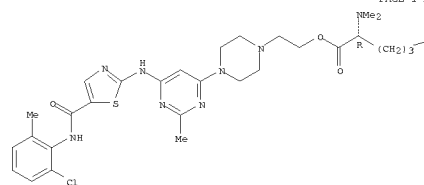
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RN 1094074-86-8 SCAPLUS
 CN D-Arginine, N2,N2-dimethyl-, 2-[4-[6-[[5-[[2-chloro-6-methylphenyl]amino]carbonyl]-2-thiazolyl]amino]-2-methyl-4-pyrimidinyl]-1-piperazinyl]ethyl ester (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

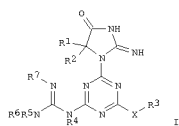


L22 ANSWER 2 OF 4 SCAPLUS COPYRIGHT 2011 ACS on SIN (Continued)

PAGE 1-B



L22 ANSWER 3 OF 4 SCAPLUS COPYRIGHT 2011 ACS on STN
 AN 2008:728540 SCAPLUS
 DN 149:54023
 TI Preparation of novel imidazolones as guanylyl cyclase receptor A (GC-A) agonists
 IN Namikawa, Koji; Shimamoto, Tetsuo; Kitano, Katsuhiko; Koyama, Yoshiaki
 PA Asubio Pharma Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 34pp.
 CODEN: JKXKAP
 DT Patent
 LA Japanese
 FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE
 JP-2008137897 A 20080619 2006JP-000322504 20061129
 PRAI 2006JP-000322504
 OS MARPAT 149:54023
 GI

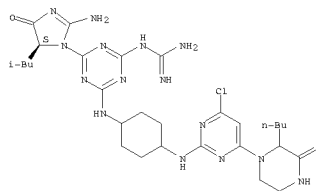


AB Title compds. I (R1, R2, R4-R7 = C1-6 alkyl, C6-14 aromatic hydrocarbyl, H; R3 = C1-10 alkyl, C6-14 aromatic hydrocarbyl, H; X = NH, O), their salts, or their solvates are prepared. The imidazolones show diuretic activity, thus useful for treatment of acute heart failure. Thus, 350 mg N-(4-anilino-6-chloro-1,3,5-triazin-2-yl)-L-leucine Me ester was treated with 300 mg guanidine at 100° in propionitrile, then treated with aqueous CF3CO2H to give 348 mg 1-[4-(2-amino-5-isobutyl-4-oxo-4,5-dihydro-1H-imidazol-1-yl)-6-anilino-1,3,5-triazin-2-yl]guanidine ditrifluoroacetate, which showed GC-A receptor agonist activity with ED50 value of 4000 nM in CHO/human GCA (4A) cells.

IT **1033127-69-39**
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of (imidazolyltriazinyl)guanidines as guanylyl cyclase receptor A agonists for treatment of acute heart failure)
 RN 1033127-69-3 SCAPLUS
 CN Guanidine, N-([4-((5S)-2-amino-4,5-dihydro-5-(2-methylpropyl)-4-oxo-1H-imidazol-1-yl)-6-anilino-1,3,5-triazin-2-yl]guanidine ditrifluoroacetate, which showed GC-A receptor agonist activity with ED50 value of 4000 nM in CHO/human GCA (4A) cells.
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 CRN 1033127-68-2
 CMF C29 H44 Cl N15 O2

Absolute stereochemistry.

L22 ANSWER 3 OF 4 SCAPLUS COPYRIGHT 2011 ACS on STN (Continued)



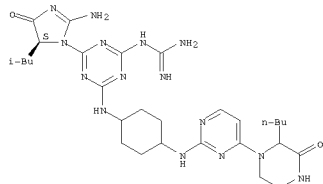
CM 2
 CRN 76-05-1
 CMF C2 H F3 O2



IT **1033127-71-79**
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of (imidazolyltriazinyl)guanidines as guanylyl cyclase receptor A agonists for treatment of acute heart failure)
 RN 1033127-71-7 SCAPLUS
 CN Guanidine, N-([4-((5S)-2-amino-4,5-dihydro-5-(2-methylpropyl)-4-oxo-1H-imidazol-1-yl)-6-anilino-1,3,5-triazin-2-yl]guanidine ditrifluoroacetate, which showed GC-A receptor agonist activity with ED50 value of 4000 nM in CHO/human GCA (4A) cells.
 CM 1
 CRN 1033127-70-6
 CMF C29 H45 N15 O2

Absolute stereochemistry.

L22 ANSWER 3 OF 4 SCAPLUS COPYRIGHT 2011 ACS on STN (Continued)

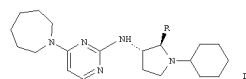
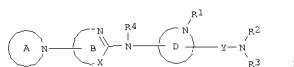


CM 2
 CRN 76-05-1
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L22 ANSWER 4 OF 4 SCAPLUS COPYRIGHT 2011 ACS on STN
 AN 2006:887712 SCAPLUS
 DN 145:293089
 TI Preparation of 2-aminopyrimidine compounds as CXCR4 antagonists
 IN Ochiai, Hiroshi; Ohnata, Akira; Takaoka, Yoshikazu; Shibayama, Shiro
 PA Ono Pharmaceutical Co., Ltd., Japan
 SO PCT Int. Appl., 17pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

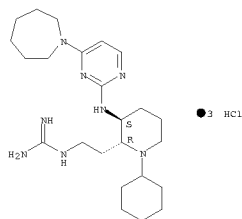
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 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MS, NA, SD, SL, SZ, TG, UG, ZM, ZW, AM, AS, BY, KG, KZ, MD, RU, TJ, TM
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 US-20050233908 A1 20050917 2007US-000816940 20070823
 PRAI 2005JP-000050998 A 20050225
 2006WO-IP0303477 W 20060224
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OS MARPAT 145:293089
 GI



AB Title compds. I [ring A = (un)substituted heterocycle containing nitrogen; ring B = optionally substituted unsatd. heterocycle containing nitrogen; ring D = (un)substituted heterocycle containing nitrogen; X = nitrogen, carbon; Y = spacer; R1 = H, (un)substituted hydrocarbon group, (un)substituted cyclic group; R2, R3 = H, (un)substituted hydrocarbon group, (un)substituted cyclic group, etc.; R2 and R3 together with the nitrogen atom to which they bonded may combine to form an optionally substituted heterocycle containing nitrogen.; R4 = H, (un)substituted hydrocarbon group), salts, N-oxide, solvates or prodrugs thereof were prepared. For example, reductive amination of 4-(1-azepanyl)-N-[(2R,3S)-2-(azidomethyl)-3-pyrrolidinyl]-2-pyrimidineamine, 6-g prepared from tert-Bu (2R,3S)-3-[(tert-butylidimethylsilyl)oxy]-2-(hydroxymethyl)-1-pyrrolidinecarboxylate in 9 steps, with cyclonexanone followed by Pd/C catalyzed reduction under H2 afforded (2R,3S)-II [R = CH2NH2]. In CXCR4 binding inhibition assays using human stromal cell derived factor 1 (SDF-1), the IC50 value of (2R,3S)-II [R = (CH2)3NH2] was 1.6 nM. Compds. I are claimed useful for the treatment of AIDS, articular rheumatism, etc.

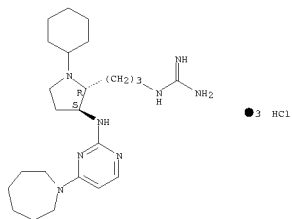
L22 ANSWER 4 OF 4 ZCAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 IT **908022-01-4P** **908022-01-5P**
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 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (preparation of 2-aminopyrimidine compds. as CXCR4 antagonists for treatment
 of AIDS, articular rheumatism, etc.)
 RN 908022-00-4 ZCAPLUS
 CN Guanidine, N-[2-[(2R,3S)-1-cyclohexyl-3-[[4-(hexahydro-1H-azepin-1-yl)-2-
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 INDEX NAME)

Relative stereochemistry.



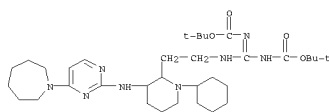
RN 908022-01-5 ZCAPLUS
 CN Guanidine, N-[3-[(2R,3S)-1-cyclohexyl-3-[[4-(hexahydro-1H-azepin-1-yl)-2-
 pyrimidinyl]amino]-2-pyrrolidinyl]propyl]-, hydrochloride (1:3), rel- (CA
 INDEX NAME)

Relative stereochemistry.



IT **908128-34-7P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of 2-aminopyrimidine compds. as CXCR4 antagonists for treatment
 of AIDS, articular rheumatism, etc.)
 RN 908128-34-7 ZCAPLUS
 CN Carbamic acid, [[12-[(2R,3S)-1-cyclohexyl-3-[[4-(hexahydro-1H-azepin-1-yl)-
 2-pyrimidinyl]amino]-2-piperidinyl]ethyl]amino][[1,1-

L22 ANSWER 4 OF 4 ZCAPLUS COPYRIGHT 2011 ACS on STN (Continued)
 dimethylethoxy)carbonyl]amino)methylene]-, 1,1-dimethylethyl ester,
 [N(E)]-rel- (9CI) (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 14:07:41 ON 11 JAN 2011)

FILE 'ZCAPLUS' ENTERED AT 14:08:24 ON 11 JAN 2011

L1 1 US20060217379 /PN

FILE 'REGISTRY' ENTERED AT 14:08:39 ON 11 JAN 2011

FILE 'ZCAPLUS' ENTERED AT 14:08:39 ON 11 JAN 2011

L2 TRA L1 1- RN : 389 TERMS

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L3 389 SEA L2

L4 336 NCNC3/ES AND L3

L5 STR

L6 1749673 46.195/RID AND NRS>=3

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SAV TEM J657C1N/A L18

L19 0 L18 AND L3

L20 113 L3 AND N>=6

L21 112 L20 AND L4

FILE 'ZCAPLUS' ENTERED AT 14:33:36 ON 11 JAN 2011

L22 4 L18

=>